# Translation

# PATENT COOPERATION TREATY

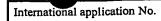


# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 030194X103	FOR FURTHER AC	TION	See Form PCT/IPEA/416			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/JP2003/011535	10 September 200	03 (10.09.2003)	10 September 2002 (10.09.2002)			
International Patent Classification (IPC) or national classification and IPC F28F 9/00						
Applicant GAC CORPORATION						
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>						
2. This REPORT consists of a total of 3 sheets, including this cover sheet.						
3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))  , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
Box No. I Basis of the r	Box No. I Basis of the report					
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
citations and explanations supporting such statement  Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain obser						
Date of submission of the demand		Date of completion	of this report			
18 March 2004 (18.03	3.2004)	06 (	October 2004 (06.10.2004)			
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.		Telephone No.				



## PCT/JP2003/011535

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. 1	I 1	Basis of the report			
		to the language, this report is based on the international application in the language in which it was filed, unless dicated under this item.			
	This which	report is based on translations from the original language into the following language, a is language of a translation furnished for the purpose of:			
		international search (under Rules 12.3 and 23.1(b))			
		publication of the international application (under Rule 12.4)			
	international preliminary examination (under Rules 55.2 and/or 55.3)				
furnisi and ar	hed to re not	to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report):			
		nternational application as originally filed/furnished			
		scription:			
	pages				
	pages	* received by this Authority on			
	the cl				
	pages				
Ì	pages				
ļ	pages				
<u> </u>	pages	received by this Authority on			
	the di	rawings:			
1	pages				
	pages				
	pages	received by this Authority on			
	a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3.	The	amendments have resulted in the cancellation of:			
]" [					
	님	the description, pages			
ļ	닐	the claims, Nos.			
Į	닏	the drawings, sheets/figs			
	닏	the sequence listing (specify):			
		any table(s) related to sequence listing (specify):			
1					
4.	mad	report has been established as if (some of) the amendments annexed to this report and listed below had not been e, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box e 70.2(c)).  the description, pages			
	닏	the drawings, sheets/figs			
Ī		the sequence listing (specify):			
		any table(s) related to sequence listing (specify):			
* If ite	em 4 a <sub>l</sub>	pplies, some or all of those sheets may be marked "superseded."			



Internal application No.
PCT/JP03/11535

No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Claims	1-13	YES			
Claims		NO			
Claims	1-9, 11	YES			
Claims	10, 12, 13	NO			
Claims	1-13	YES			
Claims		NO			
	Claims Claims Claims Claims Claims Claims Claims	Claims 1-13 Claims 1-9, 11 Claims 10, 12, 13 Claims 1-13			

Document 1: JP, 2001-272184, A (Sanden Corp.), 5 October, 2001 (05.10.01)

The subject matters of claims 10, 12 and 13 do not appear to be novel or to involve an inventive step in view of document 1 cited in the ISR.

Document 1 describes a heat exchanger where flat tubes bundled in the transverse direction are connected with a header 11.